

2023-2024

Week	Topic	Lesson 1	Lesson 2	Topic	Lesson 1	Lesson 2
School starts this week on a Friday						
11/09/2023	3.1	biological elements	water	2.1	Microscopes	magnification and calibration
18/09/2023		Carbohydrates	testing for Carbohydrates		more microscopy	Eukaryotic cell structure
25/09/2023		PAG 9.3 Qualitative testing of glucose	PAG 9.3 Qualitative testing of glucose		ultrastructure of plant cells	Prokaryotic and eukaryotic cells
02/10/2023		Lipids	structure of Proteins		Microscope drawings (practical)	TEST 2.1
09/10/2023		type of proteins	PAG 6.1 Chromatography of proteins	5.1	Structure and function of membranes	factors affecting membrane structure
16/10/2023		PAG 6.1 Chromatography of proteins	nucleic acids		Factors affecting membrane structure	Diffusion
October half term break						
30/10/2023		DNA replication and the genetic code	protein synthesis		PAG 5.1 Rate of temp on membrane permeability	PAG 5.1 Rate of temp on membrane permeability
06/11/2023					active transport	osmosis
13/11/2023		ATP	Test 3.1	6.1	PAG 8.1 Water potential of potatoes	Test 5.1
20/11/2023	4.1	enzyme action	Effect of temperature		Cell cycle	Mitosis
27/11/2023		Effect of pH	Effect of substrate conc.		PAG 1.1 Using a light microscope to study mitosis	PAG 1.1 Using a light microscope to study mitosis
04/12/2023		Effect of enzyme conc.	PAG 4.2 Rate of enzyme production based on concentration of enzyme		Meiosis	organisation and specialisation of cells
11/12/2023		PAG 4.2 Rate of enzyme production based on concentration of enzyme	Enzyme inhibitors	7.1	Stem cells	specialised Exchange surfaces
Christmas holidays						
08/01/2024		Cofactors	TEST 4.1		mammalian gaseous exchange system	measuring the process
15/01/2024	10.1	classification	the five kingdoms		Gas exchange in other organisms	Fish dissection (practical)
22/01/2024		phylogeny	evidence for evolution	8.1	TEST chapter 6 and 7	Transport in multicellular animals
29/01/2024		types of variation	representing variation graphically		Blood vessels	blood tissue fluid and lymph
05/02/2024		adaptations	changing population characteristics		Transport of oxygen	Transport of Carbon Dioxide
12/02/2024	12.1	test 10.1	animal and plant pathogens		Heart structure	PAG 2.1 heart dissection
February half term break						
26/02/2024		animal and plant diseases	transmission of communicable diseases		Cardiac cycle	Co-ordination of cardiac cycle
04/03/2024		plant defences against pathogens	non specific animal defences against pathogens	9.1	TEST 3.2	Transport in plants
11/03/2024		Specific immune system	preventing disease- immunity		water transport in multicellular plants	Transpiration
18/03/2024		preventing disease- medicine	antibiotics		transpiration practical	Translocation
25/03/2024	11.1	Test 12.1	Biodiversity		Adaptation of plants	TEST 9.1
Easter						
15/04/2024		type of sampling	sampling techniques		coordination	neurones
22/04/2024		Calculating biodiversity	calculating genetic biodiversity		sensory receptors	nervous transmission
29/04/2024		factors affecting biodiversity	reasons for maintaining biodiversity		synapses	organisation of the nervous system
06/05/2024		methods of maintaining biodiversity	PAG 3.1 Calculation of species diversity		structure and function of the brain	reflexes
13/05/2024	13.1	Test 4,2 4.3	hormonal communication		voluntary and involuntary muscles	sliding filament model
20/05/2024	14.1	structure and function of the pancreas	regulation of blood glucose regulation		Test	mutations and variation
May half term break						
03/06/2024		diabetes and its control	coordinated responses		control of gene expression	body plans
10/06/2024		controlling heart rate	review of kidney including dissection		principles of homeostasis	thermoregulation in ectotherms
17/06/2024		structure and function of mammalian kidney	the kidney and osmoregulation		thermoregulation in endotherms	excretion homeostasis and the liver
24/06/2024		urine and diagnosis	kidney failure	19.1	structure and function of the liver	embed and retrieval of yr 12
01/07/2024	5.2	embed and retrieval of yr 12	embed and retrieval of yr 13		embed and retrieval of yr 12	embed and retrieval of yr 12
08/07/2024		embed and retrieval of yr 12	embed and retrieval of yr 12		embed and retrieval of yr 12	embed and retrieval of yr 12
Summer holidays						